

## AMENDMENTS TO THE CLAIMS

1. (CURRENTLY AMENDED) A method for determining a context for coding, comprising the steps of:

(A) evaluating a neighbor condition corresponding to a plurality of neighbor blocks to a current block in a bitstream of digital video, wherein (1) said neighbor condition comprises (i) a first ~~at least one~~ of said neighbor blocks having an unavailable macroblock address is subpartitioned to an 8x8 size, (ii) a second ~~at least one~~ of said neighbor blocks ~~has a direct~~ having an intra-prediction mode of a plurality of prediction modes, (iii) a third ~~at least one~~ of said neighbor blocks ~~has~~ having a skip mode of said prediction modes and (iv) a reference index zero flag ~~has~~ having a non-zero condition and (v) a prediction mode flag having a zero condition and (2) said prediction mode flag has said zero condition where (i) a fourth of said neighbor blocks is sub-partitioned and has a sub-macroblock prediction mode that is not an inter-prediction mode of said prediction modes and not a bi-directional prediction mode of said prediction modes and (ii) a fifth of said neighbor blocks is unpartitioned and has a macroblock partition prediction mode that is not said inter-prediction mode and not said bi-directional prediction mode;

(B) generating a plurality of first variables based on said neighbor condition;

(C) calculating a context index increment variable based on said first variables; and

25 (D) coding said bitstream using a binary arithmetic coding based on a particular context among a plurality of context determined from said context index increment variable.

2. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein said context index increment variable is based on a sum of two of said first variables.

3. (CANCELED).

4. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein step (B) comprises the sub-step of:

5 independently setting each of said first variables to said non-zero condition in response to said neighbor condition indicating that a corresponding one of said prediction modes is associated with a same list applicable to a syntax element being coded.

5. (CURRENTLY AMENDED) The method according to claim 1, wherein step (B) comprises the sub-step of:

independently setting each of said first variables to a said zero condition in response to said neighbor condition

5     indicating that a corresponding one of said prediction modes is (i)  
~~said a~~ direct mode in a first case and (ii) said skip mode in a  
second case.

6.     (CURRENTLY AMENDED) The method according to claim 1,  
wherein step (B) comprises the sub-step of:

         independently setting each of said first variables to ~~a~~  
said zero condition in response to said neighbor condition  
5     indicating that a corresponding one of said prediction modes does  
not use a pixel prediction from a same list applicable to a syntax  
element being coded.

7.     (ORIGINAL) The method according to claim 1, wherein  
each of said first variables comprise a conditioning term flag that  
describes a functional relationship between a spatially neighboring  
symbol and a value of said first variables.

8.     (ORIGINAL) The method according to claim 1, wherein  
each of said first variables comprises an absolute value motion  
vector difference component.

9.     (ORIGINAL) The method according to claim 1, wherein  
said coding comprises context adaptive binary arithmetic decoding.

10. (ORIGINAL) The method according to claim 1, wherein said coding comprises context adaptive binary arithmetic encoding.

11. (CANCELED).

12. (CURRENTLY AMENDED) A system comprising:

a first circuit configured to (i) evaluate a neighbor  
5 condition corresponding to a plurality of neighbor blocks to a  
current block in a bitstream of digital video, wherein (1) said  
neighbor condition comprises (a) a first ~~at least one~~ of said  
neighbor blocks having an unavailable macroblock address is  
subpartitioned to an 8x8 size, (b) a second ~~at least one~~ of said  
10 neighbor blocks ~~has a direct~~ having an intra-prediction mode of a  
plurality of prediction modes, (c) a third ~~at least one~~ of said  
neighbor blocks ~~has~~ having a skip mode of said prediction modes and  
(d) a reference index zero flag ~~has~~ having a non-zero condition,  
and (e) a prediction mode flag having a zero condition and (2) said  
15 prediction mode flag has said zero condition where (a) a fourth of  
said neighbor blocks is sub-partitioned and has a sub-macroblock  
prediction mode that is not an inter-prediction mode of said  
prediction modes and not a bi-directional prediction mode of said  
prediction modes and (b) a fifth of said neighbor blocks is  
20 unpartitioned and has a macroblock partition prediction mode that  
is not said inter-prediction mode and not said bi-directional

prediction mode (ii) generate a plurality of first variables based on said evaluation and (iii) calculate a context index increment variable based on said first variables; and

25           a second circuit configured to code said bitstream using a binary arithmetic coding based on a particular context among a plurality of context determined from said context index increment variable.

13. (PREVIOUSLY PRESENTED) The system according to claim 12, wherein said first circuit is further configured to generate said context index increment variable based on a sum of two of said first variables.

14. (CANCELED).

15. (PREVIOUSLY PRESENTED) The system according to claim 12, wherein said first circuit is further configured to independently set each of said first variables to said non-zero condition in response to said neighbor condition indicating that a  
5   corresponding one of said prediction modes is associated with a same list applicable to a syntax element being coded.

16. (CURRENTLY AMENDED) The system according to claim 12, wherein said first circuit is further configured to

independently set each of said first variables to ~~a~~ said zero condition in response to said neighbor condition indicating that a  
5 corresponding one of said prediction modes does not use a pixel prediction from a same list applicable to a syntax element being coded.

17. (ORIGINAL) The system according to claim 12, wherein said neighbor blocks comprise a first neighbor block left of said current block and a second neighbor block above said current block.

18. (ORIGINAL) The system according to claim 12, wherein said first circuit comprises a context modeling circuit.

19. (ORIGINAL) The system according to claim 12, wherein said second circuit comprises one of a context adaptive binary arithmetic decoder and a context adaptive binary arithmetic encoder.

20. (CURRENTLY AMENDED) A system comprising:

means for (i) evaluating a neighbor condition corresponding to a plurality of neighbor blocks to a current block in a bitstream of digital video, wherein (1) said neighbor  
5 condition comprises (a) a first ~~at least one~~ of said neighbor blocks having an unavailable macroblock address is subpartitioned

to an 8x8 size, (b) a second ~~at least one~~ of said neighbor blocks  
~~has a direct~~ having an intra-prediction mode of a plurality of  
prediction modes, (c) a third ~~at least one~~ of said neighbor blocks  
10 ~~has~~ having a skip mode of said prediction modes and (d) a reference  
index zero flag ~~has~~ having a non-zero condition, and (e) a  
prediction mode flag having a zero condition and (2) said  
prediction mode flag has said zero condition where (a) a fourth of  
said neighbor blocks is sub-partitioned and has a sub-macroblock  
15 prediction mode that is not an inter-prediction mode of said  
prediction modes and not a bi-directional prediction mode of said  
prediction modes and (b) a fifth of said neighbor blocks is  
unpartitioned and has a macroblock partition prediction mode that  
is not said inter-prediction mode and not said bi-directional  
20 prediction mode (ii) generating a plurality of first variables  
based on said neighbor condition and (iii) ~~calculating~~ calculating  
a context index increment variable based on said first variables;  
and

means for coding said bitstream using a binary arithmetic  
25 coding based on a particular context among a plurality of context  
determined from said context index increment variable.

21. (PREVIOUSLY PRESENTED) The method according to claim  
7, wherein said conditioning term flag is used to code a reference  
picture index list type of syntax element.

22. (PREVIOUSLY PRESENTED) The method according to claim 8, wherein said absolute value motion vector difference component is used to code a motion vector difference list type of syntax element.

23. (CURRENTLY AMENDED) The system according to claim 12, wherein said first circuit is further configured to independently set each of said first variables to a said zero condition in response to said neighbor condition indicating that a  
5 corresponding one of said prediction modes is (i) ~~said a~~ direct mode in a first case and (ii) said skip mode in a second case.